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(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **56139293 A**

(43) Date of publication of application: **30.10.81**

(51) Int. Cl. **B23K 15/00**

(21) Application number: **55040248**

(22) Date of filing: **31.03.80**

(71) Applicant: **TOSHIBA CORP**

(72) Inventor: **SHIBUYA SUMIICHI
TAKENAKA KAZUHIRO**

(54) ELECTRON BEAM WELDING DEVICE

(57) Abstract:

PURPOSE: To enable to sufficiently utilize the effect of shield gas and to prevent oxidation of welded parts even when high speed weldings are performed, by installing a shield gas blowing out nozzle at a place locating after the beam irradiating nozzle in devices which perform the welding in an inert gas atmosphere.

CONSTITUTION: Gas nozzle 12 which blows out the after flow gas is installed after guide nozzle 11 in the progressive direction A of welding. An inert gas, such as Ar, He, etc., is blown from nozzle 12 through narrow hole 13 onto half-molten metal 14, welding on which has just completed by beam 10. In this way, metal 14 is completely shielded with the inert gas.

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